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(54) PHOTSENSITIVE AND HEAT SENSITIVE RECORDING MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To ensure superior shelf stability and printing resistance by successively disposing a 1st layer having a polarity changing material which changes from a lipophilic material into a hydrophilic material under heat and a 2nd layer containing a water-insoluble and alkaline water-soluble polymer on a substrate.

SOLUTION: A 1st layer having a polarity changing material which changes from a lipophilic material into a hydrophilic material under heat and a 2nd layer containing a water-insoluble and alkaline water-soluble polymer are successively disposed on a substrate. Since the polarity changing material has high polarity changing ability, the penetrating property of a developing solution is considerably enhanced, developability is less liable to change due to preservation and the polarity changing material used on the interface of the substrate prevents the lowering of developability near the substrate and suppresses a change of sensitivity due to preservation. Since the polarity changing material is used in combination with the alkaline water-soluble polymer, shelf stability is enhanced without deteriorating printing resistance and satisfactory printing resistance is ensured.

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